

Title (en)
EXHAUST GAS PURIFYING CATALYST

Title (de)
ABGASREINIGUNGSKATALYSATOR

Title (fr)
CATALYSEUR DE PURIFICATION DE GAZ D'ECHAPPEMENT

Publication
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Application
EP 02705061 A 20020228

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Abstract (en)
This invention relates to a catalyst for exhaust gas purification, including a substrate, a coat layer comprised of a porous support body formed on the substrate, and a noble metal supported on the coat layer. In the coat layer, pore volume of pore having pore diameter 0.1 to 20 μm occupies 50 % or more, and pore volume of pore having pore diameter 0.5 to 10 μm occupies 20 % or more, respectively of a pore volume of pore having pore diameter 50 μm or less. The pore diameter of the coat layer is 10 to 2000 times that of the conventional coat layer. Gas diffuse speed in the pore of the present invention is 10 to 2000 times that of the conventional pore. On account of the noble metal supported at the inner part of the coat layer, particle growth of the noble metal is prevented, and utilize efficiency of the NO_x storing material at the inner part is increased. Both increasing of NO_x storing amount in the lean condition under oxygen excessive atmosphere, and reducing and purifying of NO_x of high efficiency by the short time rich-spike can be realized.

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